

A Pilot Intervention to Strengthen Coordination between Primary Care and Prenatal and Early Childhood Home Visiting for Vulnerable Families in Baltimore



Beth Barnet MD, Margo DeVoe MS, Elena Klyushnenkova PhD

University of Maryland School of Medicine Department of Family and Community Medicine, Baltimore MD



Introduction

- Coordination between primary care (PC) and *evidence-based* prenatal/early childhood home visiting (HV) not well studied
- Federally-funded HV serves vulnerable pregnant women & families
- 3-5 years longitudinal support, psychosocial assessments; parenting education
 - *PCPs often unaware of HV*
- Improved coordination might increase effectiveness and efficiency

Objectives

Develop/test intervention to improve coordination between PC and HV for high-risk pregnant women/young children as indicated by:

- Enhanced mutual awareness
- Improved relationships/trust
- Mutually agreed coordination content
- Established workflows/communications through dedicated point of contact

Methods

- Mixed methods – intervention designed from qualitative data gathered from PCPs, HV leadership & staff, families receiving HV

Methods

- Pilot conducted with large urban family practice and 2 nearby federally-funded HV programs
- PCPs, HV staff completed pre/post surveys measuring knowledge, attitudes, experiences of coordination
- Intervention mothers participated in follow up focus group
- PCP awareness of HV measured via Pregnancy Risk Assessment (PRA) data from EHR. PRA required in Maryland to determine HV eligibility
- Contact tracking logs

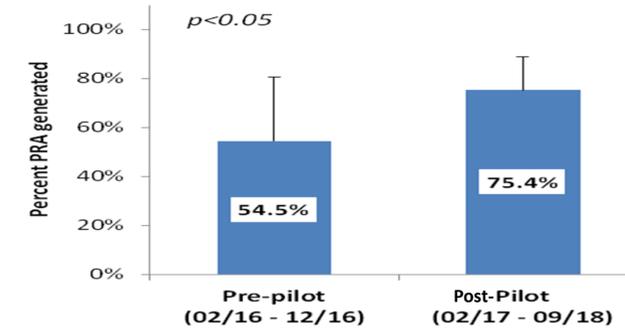
Intervention

- Clinic Care Coordinator (CC) trained as point of contact/conduit for information exchange between HV and PC
- CC accessible to HV staff, PCPs, and intervention mothers
- Expectation to convey abnormal screenings
 - Maternal depression, substance use, child development, medical/psychosocial
- PCPs and HVs trained re their roles

Between 8/2017 - 4/2018, 18 participants enrolled
 ➤ (8 mothers, their babies, 2 pregnant women)
 Followed 6-12 months; mean 7.2 months

Results

PRA Completion rates by PCPs (proxy for awareness of HV) before and after Coordination Pilot



PCPs Knowledge, Beliefs, Behaviors re their Practice's Coordination with HV, pre/post Intervention

	Pre (n=30)	Post (n=29)
Knowledgeable about HV	3%	21%
Knowledgeable how to refer into HV	4%	17%
Practice has a dedicated CC for HV	27%	48%
Practice actively coordinates with HV	15%	21%
Ever contact HV prgm	17%	38%

HVs Knowledge, Beliefs, Behaviors re their Program's Coordination with PC, pre/post Intervention

	Pre (n=34)	Post (n=29)
Know whether clients receive PC at intervention practice	NA	83%
HV prgm effectively relays relevant client info with PC	58%	76%
Confident that HV prgm effectively coordinates with PC	27%	57%
Coordination with PC helps clients' overall health	55%	52%
HV prgm expects communication of abn depr screens to PC	17%	29%
Ever communicate or send client information to PC	69%	61%
Ever contact PC Care Coordinator to discuss concerns	29%	48%

Coordination topics & number of contacts/topic, N=140 contacts[§] (topic %)

General health concerns	11 (8)
Maternal mental health	5 (4)
Child development	4 (3)
Discuss or make referral	15 (11)
Appointment issues	15 (11)
Discuss concerns brought up by mothers	52 (37)
Request for health records	1 (1)
Housing issues	2 (1)
Administrative information sharing	33 (24)

[§] 80% of contacts were initiated by PC Care Coordinator
 57% of contacts were by phone, requiring multiple attempts

Mothers' Coordination Beliefs & Experiences:

Themes from Focus Groups: pre/post

Pre-Intervention mothers:

- Assumed that their doctor was unaware they receive HV
- Predicted obstacles due to their own PC access problems
- Favored coord if they had good relationship with own doc/HV
- Worried that coordination might increase CPS reports

Post-Intervention mothers:

- Experienced increased access to PC
- Welcomed assistance navigating referrals
- Gained clarity with conflicting/confusing health messages
- Reaped stability that mitigated unpredictability in their lives

Conclusions

- **Coordination knowledge, beliefs, behaviors generally changed in the desired direction, but remained low**
- **Developing and sustaining coordination relationships is challenging**
- **Dedicated care coordinator and workflow training is necessary, but *not* sufficient**
- **Participant mothers perceived value in coordination**
- **Absence of HIPPA-compliant electronic infrastructure may have contributed to limited coordination**